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NOTICE OF ALLOWANCE AND FEE(S) DUE

21567

7590

06/25/2004

WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201 EXAMINER VU, DAVID

ART UNIT

PAPER NUMBER

DATE MAILED: 06/25/2004

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/234 233	01/20/1999	WEIMIN LI	MI22-1035	6381

TITLE OF INVENTION: SEMICONDUCTOR PROCESSING METHODS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	09/27/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATEN <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM TH MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOV REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WIL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is n claiming SMALL ENTITY status, check the box below and enclo the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) w your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with a

able fee(s), to: Mail

Mail Stop ISSUE F Commissioner for Parents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed wh appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

21567

7590

06/25/2004

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its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.

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09/234,233	01/20/1999	WEIMIN LI	MI22-1035	6381

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nonprovisional	NO	\$1330	ı	\$0	\$1330	09/27/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS		
VU, DAVID		2818		438-460000	-	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of agents Of firm (hav agent) an	inting on the patent front page. F up to 3 registered patent a R, alternatively, (2) the name ing as a member a registered d the names of up to 2 regis or agents. If no name is liste inted.	attorneys or 1 of a single attorney or 2 tered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY		2 2	
Please check the appropriate assignee category or ca	ategories (will not be printed on the patent);	☐ individual	☐ corporation or other private group entity	☐ governm
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Num		by charge the required fee(s), or credit any (enclose an extra copy of this	
Director for Patents is requested to apply the Issue F	Fee and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified abo	ve.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if re other than the applicant; a registered attorney of interest as shown by the records of the United State	r agent; or the assignee or other party in			
This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S estimated to take 12 minutes to complete, includic completed application form to the USPTO. Timcase. Any comments on the amount of time y suggestions for reducing this burden, should be Patent and Trademark Office, U.S. Departm 22313-1450. DO NOT SEND FEES OR COMSEND TO: Commissioner for Patents, Alexandria,	to file (and by the USPTO to process) an I.C. 122 and 37 CFR 1.14. This collection is ng gathering, preparing, and submitting the e will vary depending upon the individual ou require to complete this form and/or sent to the Chief Information Officer, U.S. ent of Commerce, Alexandria, Virginia IPLETED FORMS TO THIS ADDRESS.			
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09/234,233	01/20/1999	WEIMIN LI	MI22-1035	6381	
21567 75	590 06/25/2004		EXAM	EXAMINER	
WELLS ST. JOHN P.S.			VU, DAVID		
601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201			ART UNIT	PAPER NUMBER	
SI ORAIL, WA 7.	7201		2818		
			DATE MAILED: 06/25/2004	4	

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date th determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retriev (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)		
	09/234,233	LI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	DAVID VU	2818		
		<u> </u>		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this ap b) or other appropriate communication RIGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS		
1. This communication is responsive to <u>03/11/04</u> .				
2. The allowed claim(s) is/are 1-29,31 and 32.				
3. \boxtimes The drawings filed on <u>20 January 1999</u> are accepted by t	the Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority documents have 				
Certified copies of the priority documents have				
Copies of the certified copies of the priority d	ocuments have been received in this	national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority		ional application).		
(a) The translation of the foreign language provisional				
6. Acknowledgment is made of a claim for domestic priority	under 35 0.5.C. 99 120 and/or 121.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of	of this communication to file a reply c of this application. THIS THREE-MO	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.		
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives rea	omitted. Note the attached EXAMINER ason(s) why the oath or declaration is	R'S AMENDMENT or NOTICE OF deficient.		
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperior (a) hereto or 2) to Paper No	erson's Patent Drawing Review(PTC)-948) attached		
(b) including changes required by the proposed drawing	g correction filed, which has b	een approved by the Examiner.		
(c) \square including changes required by the attached Examine	er's Amendment / Comment or in the	Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape	1.84(c)) should be written on the drawi er with a transmittal letter addressed to	ngs in the top margin (not the back) the Official Draftsperson.		
9. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL MATERIAL I THE DEPOSIT OF BIOLOGICAL MA	must be submitted. Note the ATERIAL.		
Attachment(s)				
 1 □ Notice of References Cited (PTO-892) 3 □ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 □ Information Disclosure Statements (PTO-1449), Paper No. 7 □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summ 41. 6☐ Examiner's Ame	nal Patent Application (PTO-152) nary (PTO-413), Paper No endment/Comment ement of Reasons for Allowance		
	Supervisory Patent Examiner			
Technology Canter 2800				

Application/Control Nurser: 09/234,233

Art Unit: 2818

DETAILED ACTION

Reason for allowance

1. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests a semiconductor processing method comprising a layer of material comprising oxygen, as initially deposited, over a semiconductor wafer substrate. Some portions of the layer are exposed to energy while other portions are not exposed. The exposure to energy alters physical properties of the exposed portions relative to the unexposed portions. After the portions are exposed, the exposed and unexposed portions of the layer are subjected to common conditions. The common conditions are effective to remove the material and comprise a rate of removal that is influenced by the altered physical properties of the layer. The common conditions remove either the exposed or unexposed portions faster than the other of the exposed and unexposed portions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Application/Control Nurser: 09/234,233

Art Unit: 2818

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is 571-272-1798. The examiner can normally be reached on Monday-Friday 8:00am-5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DV

David Vu.

David Nelms

Supervisory Patent Examiner Technology Center 2800